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ABSTRACT OF THE DISCLOSURE

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An audio speaker system employs an annular gasket that separates the sound reproducing membrane of a speaker driver with a horn waveguide. The annular gasket is disposed in an area outside of and adjacent to the throat of the horn waveguide. The annular gasket is preferably realized from closed cell foam or other compliant acoustically-absorbable material. The gasket minimizes the volume of the compression chamber that the sound reproducing membrane is compressing, thus leading to less frequency cancellation (which leads to improved frequency response of the speaker driver).